

REMARKS

Claims 1-19 are now present in this application, with new claims 8-19 being added by the present Preliminary Amendment. It should be noted that the amendments to original claims 1-7 of the present application are non-narrowing amendments, made solely to place the claims in proper form for U.S. practice and not to overcome any prior art or for any other statutory considerations. For example, amendments have been made to broaden the claims; remove reference numerals in the claims; remove/change any phrases unique to European practice; remove multiple dependencies in the claims; and to place claims in a more recognizable U.S. form, including the use of the transitional phrase "comprising" as well as the phrase "wherein". Other such non-narrowing amendments include placing apparatus-type claims (setting forth elements in separate paragraphs) in a more recognizable U.S. form. Again, all amendments are non-narrowing and have been made solely to place the claims in proper form for U.S. practice and not to overcome any prior art or for any other statutory considerations.

CONCLUSION

Accordingly, in view of the above amendments and remarks, an early indication of the allowability of each of claims 1-19 in connection with the present application is earnestly solicited.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Donald J. Daley at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or

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credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

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SUBSTITUTE SPECIFICATION

Description

INTERNAL ROOF-CEILING CLADDING FOR A LARGE-CAPACITY VEHICLE FOR PASSENGER TRANSPORT IN PARTICULAR A RAIL VEHICLE

[0001] This application is the national phase under 35 U.S.C. § 371 of PCT International Application No. PCT/EP2004/004180 which has an International filing date of April 20, 2004, which designated the United States of America and which claims priority on German Patent Application number DE 103 21 661.8 filed May 14, 2003, the entire contents of which are hereby incorporated herein by reference.

Field

[0002] The invention generally relates to an internal roof or ceiling cladding for a large-capacity vehicle for passenger transport, in particular a rail vehicle. The cladding may include, for example, comprising a cladding element arranged in the region of a door drive, and coving elements adjoining said the cladding element in the longitudinal direction of the vehicle.

Background

[0003] It is generally customary in rail vehicles for door drives arranged on the roof side to be clad by means way of a respective element and for there to be arranged between these elements coving elements which likewise form part of the internal cladding. As a rule, the design and especially the shaping of the cladding elements and of the coving elements are fixed at the actual vehicle design phase, frequently in collaboration with the customer. The appearance which is thereby imparted to the vehicle is barely capable of being

altered subsequently, in particular after the vehicle has been delivered, unless at considerable cost.

[0004] The aforementioned disadvantage is applicable for example to what is disclosed in the publication EP 1 186 499 A2, namely a coach body of a rail vehicle having an internal cladding which is arranged in the roof region and which ~~comprises~~ includes three cladding sections extending transversely with respect to the longitudinal direction of the coach body. An air duct is in each case fitted between the central cladding section and the two lateral cladding sections. The underside of these air ducts is situated in the plane of the lateral cladding sections, with the result that the air ducts can be fitted into the contour of the internal cladding.

[0005] The prior art also includes, by way of the document DE 197 46 795 A1, a large-capacity vehicle in which an internal cladding for the ceiling region ~~comprises~~ includes two sandwich cover plates which are each formed continuously over the length of the vehicle and cover one half of the roof. This internal cladding which defines the appearance of the vehicle is also virtually no longer capable of being modified to any degree after the vehicle has been delivered.

SUMMARY

[0006] ~~The~~ An object ~~on which~~ of at least one embodiment of the invention ~~is based~~ is to provide a cladding design for a vehicle of the generic type which allows vehicles to be produced whose visual appearance can be modified at little cost and with little outlay on parts. These modifications should also be possible after a customer has decided on a specific vehicle configuration and, if appropriate, even after the vehicle has gone into service.

[0007] This An object is may be achieved according to at least one embodiment of the invention in that the cladding element has on its side facing the longitudinal center of the vehicle a bearing surface for making contact in a precisely fitting manner with a complementary surface formed on a further cladding element.

[0008] At least one embodiment of the the invention may advantageously ensures that at the start of an order the customers have the option of ordering a variant of the vehicle which, in terms of the internal cladding, is basic, simple and therefore inexpensive, with it. It is further being possible for this vehicle to be retrofitted with cladding elements at any time or even to have its entire interior design modernized after a number of years.

[0009] Advantageous refinements of the invention are given in the subclaims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The invention will be described in further detail below with the aid of exemplary example embodiments which are illustrated in the drawings, in which

- fig. 1 is a perspective view showing the interior of a vehicle for passenger transport,
- fig. 2 shows a cladding element for a door drive, forming a base module,
- fig. 3 is a view based on fig. 2 showing a further cladding element,
- fig. 4 is a view based on fig. 3 showing an additional cladding element in a first configuration,
- fig. 5 is a view based on fig. 3 showing an additional cladding element in a second configuration,

fig. 6 is a perspective partial view showing a modular arrangement of cladding elements, including lighting units,

fig. 7 is a perspective view showing coving elements and their lighting units.

DETAILED DESCRIPTION OF THE EXAMPLE EMBODIMENTS

[0010] The vehicle has a floor 8, side walls 10 provided with doors 9, and a roof 5. Cladding elements 1 are arranged in the region of door drives and they are adjoined by coving elements 4. The cladding elements 1 are in each case provided as a base module and are preferably connected to the side walls 10 ~~by means of via~~ concealed hinges, ~~with the~~. A result is that the door drives are readily accessible for maintenance work. Each cladding element 1 is provided on its side facing the longitudinal center of the vehicle with a surface 1a for seating at least one further cladding element 2 in a precisely fitting manner.

[0011] The further cladding elements 2 may be designed as decorative end-pieces. Alternatively, the further cladding elements 2 may have on their side facing the longitudinal center of the vehicle a surface 2a for seating additional cladding elements 3 in a precisely fitting manner.

[0012] According to fig. 4, these additional cladding elements 3 are arranged between two further cladding elements 2 situated opposite one another in the transverse direction of the vehicle, and thus span the central region of the roof 5. A modification (not shown) ~~comprises~~ includes configuring the further cladding elements 2 in such a way that, in a manner corresponding to the additional cladding elements 3, they may be arranged between two cladding elements 1 situated opposite one another in the transverse direction of the vehicle and likewise span the central region of the roof 5. Moreover, the

further cladding elements 2 may also be used as intermediate pieces for simple adaptation to different vehicle widths.

[0013] The cladding elements 1, 2 and 3 may optionally be equipped with a lighting unit 6 (see fig. 6). It is possible for the coving elements 4, too, to have a lighting unit 7 which preferably ~~comprises~~includes a lighting fixture which is fitted into a cutout 4a in the coving element 4 and is detachably connected to the coving element 4 for replacement purposes. The lighting fixture may for example contain a fluorescent tube and/or round lamps (spotlights). The particular ideas that the customers have with regard to vehicle lighting may be taken into account in a simple manner.

[0014] List of reference numbers

1	cladding element (base module) for the door drive
1a	bearing surface
2	further cladding element
2a	bearing surface
3	additional cladding element
4	coving element
4a	cutout
5	roof
6	lighting unit for the cladding element
7	lighting unit for the coving element
8	floor
9	door
10	side wall